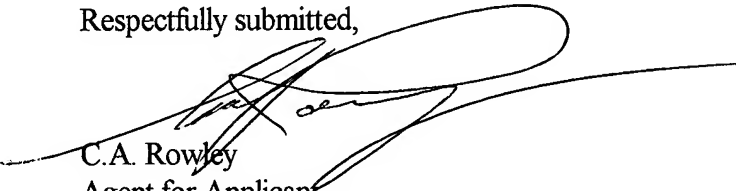


A List and copies of the references cited in the disclosure and by the European Patent Office against the PCT application are enclosed for review and consideration by the Examiner, please note that the Duong et al reference (made of record by the European Patent Office) is publication made by the inventors subsequent to the filing of the Provisional application and thus is not a reference against this Patent Application.

Respectfully submitted,



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We Claim

1. A method of extracting coal fines from an aqueous phase containing suspended coal fines and hydrophilic mineral matters comprising mixing an extraction oil with the coal fines suspended in said aqueous phase, the oil being added in an amount effective to extract the coal fines by hydrophobic extraction and form a nonaqueous phase containing said coal fines and said oil and a modified aqueous phase containing said hydrophilic mineral matters, adding at least one of a flocculating agent, a coagulating agent or a combination of said flocculating agent and said coagulating agent to at least one of said aqueous phase and said modified aqueous phase to separate said hydrophilic mineral matters and provide a clarified aqueous phase.
2. A method as defined in claim 1 wherein said mixing of said extraction oil and said adding of said at least one of said flocculating agent, said coagulating agent or said combination of the two for recovering fine coals is integrated into a single stage.
3. A method as defined in claim 2 wherein said single stage includes removing said mineral matters from said aqueous phase to provide said clarified aqueous phase for recycling.
4. A method as defined in claim 1[, 2, or 3] wherein said extraction oil is added in the amount of between about 100 and 250 % based on the dry weight of the coal fines in the suspension.
5. A method as defined in claim 1[, 2, 3, or 4] wherein said extraction oil is selected from the group including heavy crude, light mineral oils, fuel oils and landfill gas condensates X
6. A method as defined in [any one of] claim 1 [to 5 inclusive] wherein said one comprises said flocculating agent, which is added to a concentration below 30ppm.
7. A method as defined in claim 6 wherein said flocculating agent is selected from the group comprising cationic and anionic flocculants. X
8. A method as defined in [any one of claims] claim 1 [to 7 inclusive] wherein said one comprises said coagulating agent, which is added to a concentration of up to about 1000 ppm.

9. A method as defined in claim 8 wherein said coagulating agent is selected from the group comprising positively charged aluminum hydrosols and suitable multivalent cations X

5. 10. A method as defined in [any one of claims] claim 1 [to 5 inclusive] wherein said one comprises said combination of said flocculating agent and said coagulating agent for separation of said hydrophilic mineral materials from said aqueous suspension.

11. A method as defined in claim 10 wherein said flocculating agent is an anionic flocculants and said coagulating agent comprises suitable multivalent cations

10 12. A method as defined in [any one of] claim [10 or] 11 wherein said flocculating agent is added to a concentration below 30 ppm

13. A method as defined in [any one of claims] claim [10, 11 or] 12 wherein said coagulating agent is added to a concentration of up to about 1000 ppm.

15 14. A method as defined in [any one of claims] claim [10 to] 13 [inclusive] wherein said flocculating agent and said coagulating agent are mixed in the ratio of between 1/10 and 1/100 of flocculating agent to coagulating agent.

Please add new claims 15 to 20 inclusive as follows

15. A method as defined in claim 2, wherein said extraction oil is added in the amount of between about 100 and 250 % based on the dry weight of the coal fines in the suspension.

20 16. A method as defined in claim 2 wherein said extraction oil is selected from the group including heavy crude, light mineral oils, fuel oils and landfill gas condensates X

17. A method as defined in claim 2 wherein said one comprises said flocculating agent, which is added to a concentration below 30ppm.

25 18. A method as defined in claim 17 wherein said flocculating agent is selected from the group comprising cationic and anionic flocculants. X

19. A method as defined in claim 2 wherein said one comprises said coagulating agent, which is added to a concentration of up to about 1000 ppm.

30 20. A method as defined in claim 19 wherein said coagulating agent is selected from the group comprising positively charged aluminum hydrosols and suitable multivalent cations X